

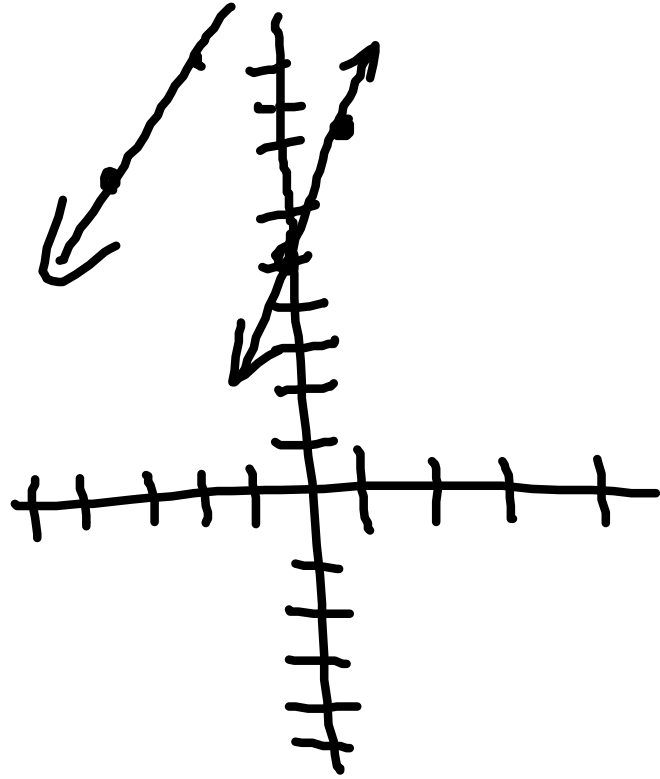
37

$$f(x) = 2x + 5$$

$$g(x) = 2(x+3) + 5 + 2$$

$$g(x) = 2x + 6 + 7$$

$$g(x) = 2x + 13$$



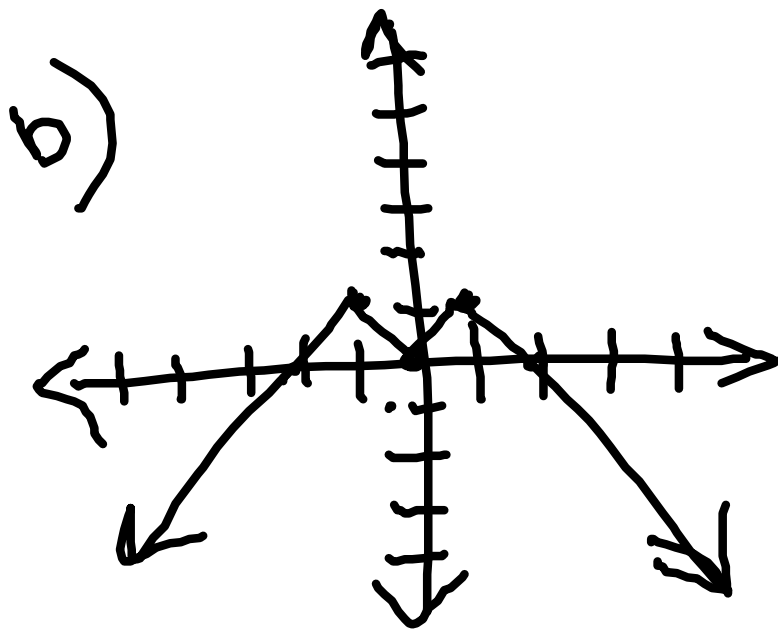
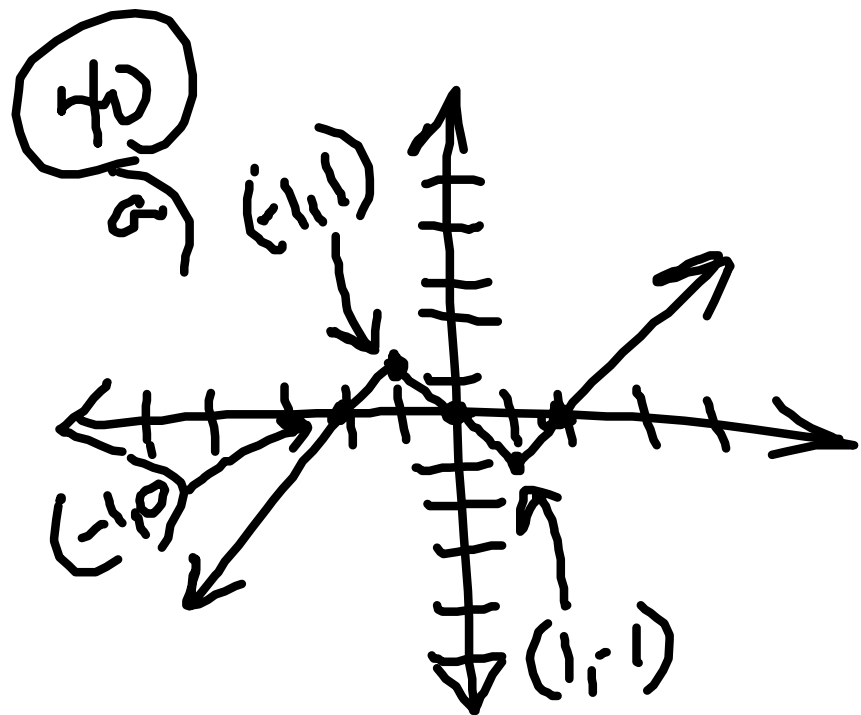
$$f(x) = 3 - x$$

$$f(x) = -x + 3$$

$$g(x) = -(x - 3) + 3 - 2$$

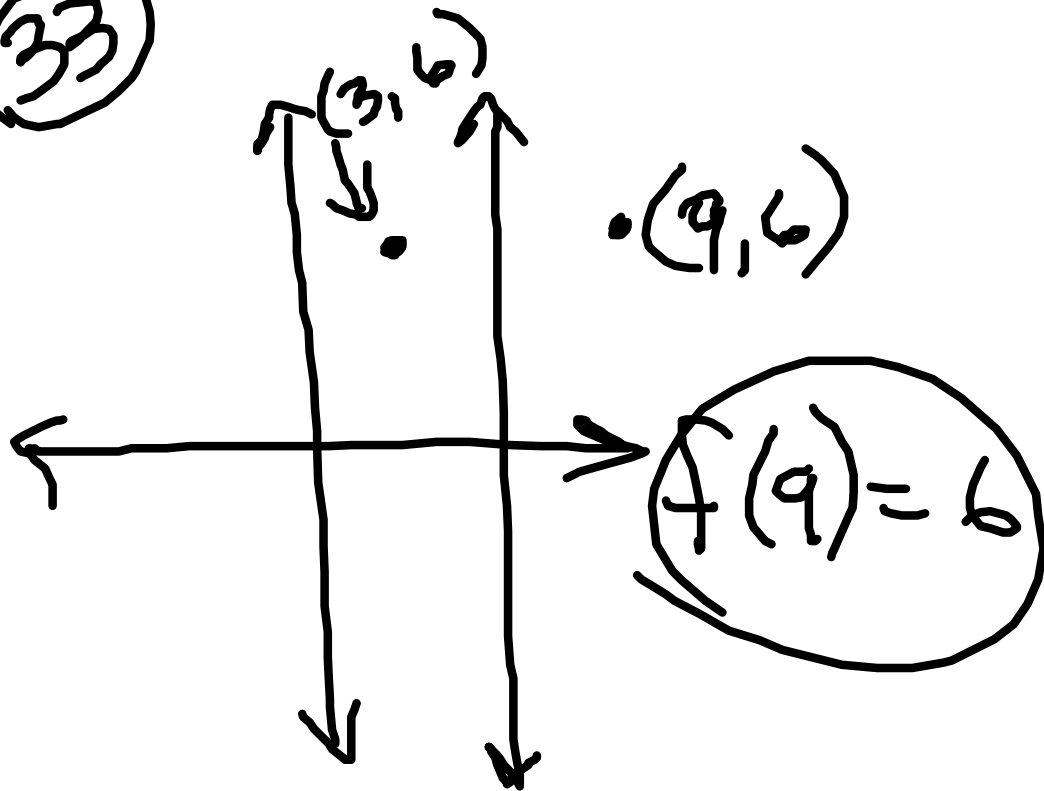
$$g(x) = -x + 3 + 3 - 2$$

$$g(x) = -x + 4$$



(33)

$$f(3) = 6 \quad (3, 6)$$



over  $y$

$$y = f(-x)$$

over  $x$

$$y = -f(x)$$

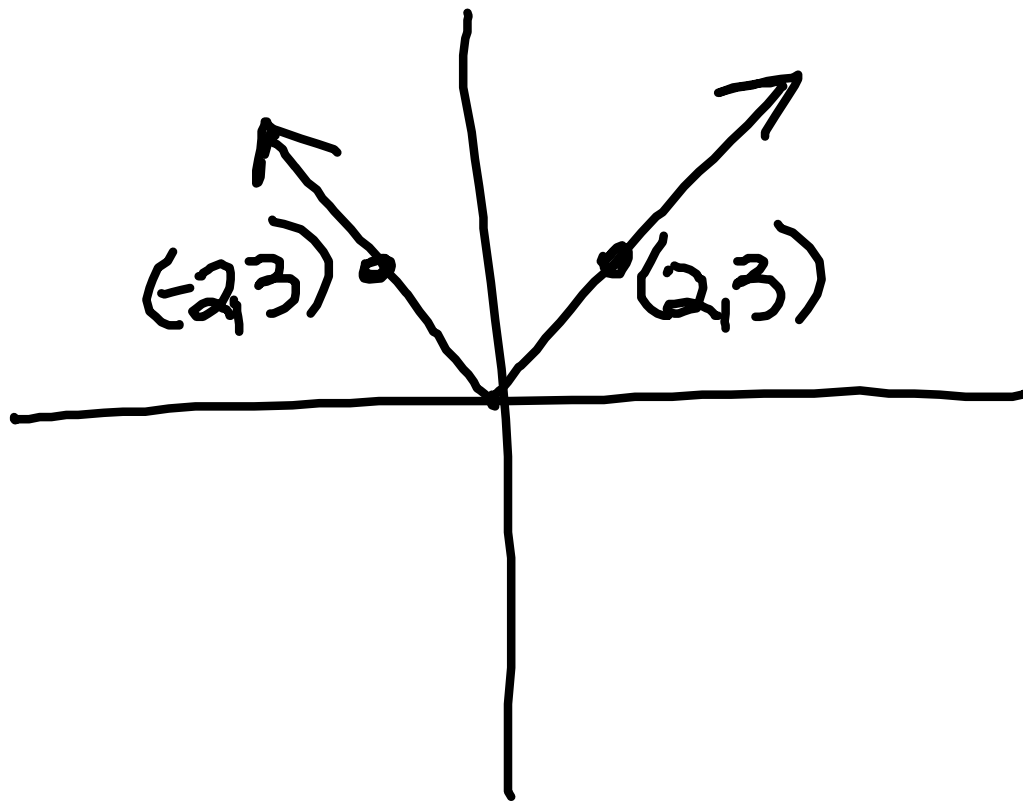
over  $x$

$$y = f(-x)$$

over  $x$

$$y = -f(x)$$

$$y = f(x)$$



$$f(x) = \frac{3}{x^2 + 5x - 6}$$

$$x^2 + 5x - 6 \neq 0$$

$$(x+6)(x-1) \neq 0$$

$$x \neq -6 \quad x \neq 1$$



$$D: (-\infty, -6) \cup (-6, 1) \cup (1, \infty)$$

$$X: (-\infty, -6) \cup (-6, 1) \cup (1, \infty)$$

$$x + \frac{5}{2}: (-\infty, -\frac{7}{2}) \cup (-\frac{7}{2}, \frac{7}{2}) \cup (\frac{7}{2}, \infty)$$

$$\left(x + \frac{5}{2}\right)^2 \left[ 0, \frac{49}{4} \right) \cup \left( \frac{49}{4}, \infty \right)$$

$$\left(x + \frac{5}{2}\right)^2 = \frac{49}{4} \left[ -\frac{49}{4}, 0 \right) \cup (0, \infty)$$

$$f(x) = \frac{3}{x^2 + 5x - 6}$$

$$f(x) = \frac{3}{\left(x + \frac{5}{2}\right)^2 - \frac{49}{4}}$$

$$\frac{1}{\left(x + \frac{5}{2}\right)^2 - \frac{49}{4}} \left( \infty, -\frac{4}{49} \right] \cup (0, \infty)$$